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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/652,589	08/29/2003	Russell W. White	1030-0001	9154
34456	56 7590 10/31/2006		EXAMINER	
LARSON NEWMAN ABEL POLANSKY & WHITE, LLP			ANDERSON, CATHARINE L	
	5914 WEST COURTYARD DRIVE SUITE 200 AUSTIN, TX 78730		ART UNIT	PAPER NUMBER
			3761	

DATE MAILED: 10/31/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)			
0.00		10/652,589	WHITE ET AL.			
	Office Action Summary	Examiner	Art Unit			
		C. Lynne Anderson	3761			
Period fo	The MAILING DATE of this communication apports. The Mail of the second section is a second	pears on the cover sheet with the	correspondence address			
WHIC - Exte after - If NC - Failt Any	HORTENED STATUTORY PERIOD FOR REPL CHEVER IS LONGER, FROM THE MAILING D ensions of time may be available under the provisions of 37 CFR 1.1 or SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period ure to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailin lend patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 136(a). In no event, however, may a reply be till will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on <u>18 August 2006</u> .					
2a)⊠	This action is FINAL . 2b) ☐ This	p) This action is non-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under t	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.			
Disposit	cion of Claims					
4)🛛	Claim(s) <u>1-32</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
•	5) Claim(s) is/are allowed.					
-	6)⊠ Claim(s) <u>1-32</u> is/are rejected.					
	Claim(s) is/are objected to.					
اــا(٥	Claim(s) are subject to restriction and/o	or election requirement.				
Applicat	ion Papers					
9)[The specification is objected to by the Examine	er.				
10)	10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
	Applicant may not request that any objection to the					
44)	Replacement drawing sheet(s) including the correct	• • • • • • • • • • • • • • • • • • • •				
11)[The oath or declaration is objected to by the Ex	xaminer. Note the attached Office	e Action or form PTO-152.			
Priority	under 35 U.S.C. § 119					
•	Acknowledgment is made of a claim for foreign ☐ All b)☐ Some * c)☐ None of:	n priority under 35 U.S.C. § 119(a)-(d) or (f).			
,	1. Certified copies of the priority document	ts have been received.				
	2. Certified copies of the priority document	ts have been received in Applicat	ion No			
	3. Copies of the certified copies of the prior	ority documents have been receiv	ed in this National Stage			
	application from the International Burea	, , , ,				
* (See the attached detailed Office action for a list	of the certified copies not receive	ed.			
Attachmer	• •	_	· ·			
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail D				
3) 🔲 Infor	rmation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date	5) Notice of Informal I				

DETAILED ACTION

Response to Arguments

Applicant's arguments filed 18 August 2006 have been fully considered but they are not persuasive.

In response to the applicant's argument that both Mark and Crane fail to disclose a *burstable* membrane, it is noted that the definition of 'burst' is not limited to breaking apart due to an increase in internal pressure. Rather, something may burst as a result of an external force, as is the case with the membranes of Mark and Crane. Therefore, Mark and Crane both disclose a burstable membrane.

In response to the applicant's argument that Mark fails to disclose a crimp that isolates the first member from the second member, it is noted that the "wall or plug" 36 of Mark provides a seal or restraint between the chambers, and therefore fulfills the claimed limitation of a 'crimp.'

In response to the applicant's argument that Mark fails to disclose a mouth at the distal end of the support member that is encompassed by an applicator, it is noted that Mark shows in figure 3 an open end, or mouth, of the support member 31 that is covered by, and therefore encompassed by, the bottom portion of the applicator.

In response to the applicant's argument that Crane fails to dislose removing the applicator tip from a package and disposing of it after a single use, it is noted that Crane discloses in column 10, lines 33-35, the applicator tip being enclosed in a package and in column 6, line 41, the applicator being a single use applicator. Therefore, in order to use the applicator tip it must be removed from the packaging, and the step of removal is

inherent to the use of the applicator tip. Likewise, disposal of the applicator tip after a single use is inherent to a single use applicator. Therefore, Crane fulfills the limitations of the claim.

In response to the applicant's argument that the substance of Crane is not released into an applicator portion of the system that contains the initiator, it is noted that an applicator portion is not further defined in the instant claim. Therefore, the "applicator portion" of Crane may be defined to include the chamber comprising the initiator.

In response to the applicant's argument that Crane fails to disclose the steps of locating the first and second substances in cavities defined by the support member, it is noted that the first and second substances of Crane are located in the support member, and therefore the step of locating the substances in the support member is fulfilled by Crane.

In response to the applicant's argument that Crane fails to disclose a package that is operable to protect the support member from contamination, it is noted that any package is capable of operating to protect its contents from contamination. The instant claim does not disclose the degree of protection of the package, or even that the package protects the support member from contamination, but merely claims the package is operable to protect. The package of Crane is fully capable of protecting the support member, and therefore fulfills the limitations of the claim.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-3 and 5-6 are rejected under 35 U.S.C. 102(e) as being anticipated by Mark (US 2003/0060746).

Mark discloses a self-contained substance application system, as shown in figure 3, comprising a support member 31 defining a first cavity and a second cavity. A first substance is located in the first cavity, and a second substance is located in the second cavity. A first burstable membrane 34 and second burstable membrane 35 enclose the cavities. An applicator 42 is attached to the support member, and conduit 39 indicated the location of the first cavity.

With respect to claim 2, the support member 31 comprises a first support member 32 and a second support member 33, which each have an open end and a closed end, and are affixed to one another at their respective closed ends 36, as shown in figure 3.

With respect to claim 3, crimp 36 isolates the first and second cavities.

With respect to claim 5, the support member 31 has a linear configuration, as shown in figure 1. The support member 31 is tubular, as disclosed in paragraph [0024], and therefore has a circular cross section.

With respect to claim 6, the support member 31 defines a mouth of the first cavity at a first distal end, and a mouth of the second cavity at the second distal end, as shown in figure 3. A second applicator 41 is attached to the second mouth, and has a different appearance than the first applicator 42.

Claims 7, 9-10, 13-16, 19-20, and 22-31 are rejected under 35 U.S.C. 102(e) as being anticipated by Crane (6,811,341).

With respect to claim 7, Crane discloses a method of removing an application system from a package, operating a delivery mechanism to initiate release of a substance from a cavity by bursting the membrane of the cavity, releasing the substance to a porous applicator tip, and applying the substance, as described in column 6, line 42, to column 7, line 5. The application system is single use and therefore discarded after use, as disclosed in column 5, lines 5-6.

With respect to claim 9, the support member is a tube, and therefore has a round cross section. A plunger is depressed to operate the delivery mechanism, as disclosed in column 6, lines 49-60.

With respect to claim 10, the substance is combined with an initiator to convert the monomer to a polymer, as disclosed in column 6, lines 61-65.

With respect to claim 13, Crane discloses a substance application system, as shown in figure 11, comprising a cavity formed from a support member 1008. The cavity contains a substance 1020 comprising a fast polymerizable liquid monomer, as disclosed in column 11, line 39. An expulsion orifice 1032 is configured to release the substance, and an applicator tip 1026 is configured for depositing an adhesive film on a surface.

With respect to claim 14, the fast polymerizable liquid monomer comprises cyanoacrylate, as disclosed in column 5, lines 30-40.

With respect to claim 15, a delivery mechanism 1006 initiates release of the contained substance by rupturing a burstable membrane 1022, 1024, as shown in figure 11.

With respect to claim 16, a second cavity is provided comprising a second substance 1030, the second substance being different from the first substance, as disclosed in column 11, lines 43-44.

With respect to claim 19, the method comprises locating first and second substances and attaching an applicator to the support member, as disclosed in column 6, lines 28-39.

With respect to claim 20, the opening of the first cavity is enclosed by a burstable member 1024, as shown in figure 11.

With respect to claim 22, the support member and attached applicator are sealed in a container, as shown in figure 10.

With respect to claim 23, the support member is a tube, and therefore has a round cross section. The support member partially defines the first and second cavities, as shown in figure 11.

With respect to claim 24, the first cavity is isolated from the second cavity, as shown in figure 11.

With respect to claim 25, an indicator, first end 1032, identifies the location of the first cavity 1002, as shown in figure 11.

With respect to claim 26, the support member has a long axis, as shown in figure 11, and is a tube, which has an elliptical cross section.

With respect to claim 27, the first substance comprises a polymerizible liquid monomer, which is associated with an initiator, as disclosed in column 6, lines 61-65.

With respect to claim 28, a burstable seal 1022 keeps the first substance in the first cavity, as shown in figure 11. A package contains the support member, protecting it from contamination, as disclosed in column 10, lines 33-35.

With respect to claim 29, an indicator, first end 1032, identifies the location of the first cavity 1002, as shown in figure 11.

With respect to claim 30, a second seal 1012 keeps the second substance in the second cavity, as shown in figure 11. A sterile applicator 1026 is attached to the support member 1008.

With respect to claim 31, a plurality of packages are contained in a box, as disclosed in column 10, lines 33-35.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Mark (US 2003/0060746).

Mark discloses all aspects of the claimed invention with the exception of the first caving having a larger volume than the second cavity. It would have been obvious to one of ordinary skill in the art at the time of invention to make one cavity larger than the other to allow for different amounts of medicament to be applied to the patient.

Claims 8, 11-12, 17, 21, and 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Crane (6,811,341) in view of D'Alessio et al. (6,595,940).

With respect to claim 8, Crane discloses all aspects of the claimed invention with the exception of squeezing the support member along a major axis to operate the deliver mechanism. D'Alessio teaches a substance application method involving squeezing the support member along a major axis to operate the delivery mechanism, as described in column 7, lines 40-45 to provide a simple yet effective application system, as disclosed in column 4, lines 19-20. It would therefore be obvious to one of ordinary skill in the art at the time of invention to apply the substance of Crane by

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squeezing the support member, as taught by D'Alessio, to provide a simple yet effective application system.

With respect to claims 11 and 21, Crane discloses all aspects of the claimed invention with the exception of a second applicator tip. D'Alessio teaches a second applicator tip for application of the second substance, as disclosed in column 8, lines 17-23. It would therefore be obvious to one of ordinary skill in the art at the time of invention to provide the support member of Crane with a second applicator tip, as taught by D'Alessio, to provide for separate application of the second substance.

With respect to claims 12, 17, and 32, Crane discloses all aspects of the claimed invention with the exception of an antiseptic agent. D'Alessio teaches an application system for applying cyanoacrylate to a patient, and discloses an initiator that comprises an antiseptic agent to promote healing of the wound site, as disclosed in column 11, lines 41-57. It would therefore be obvious to one of ordinary skill in the art at the time of invention to provide the initiator of Crane with an antiseptic agent, as taught by D'Alessio, to promote healing of the wound site.

Claim 18 is rejected under 35 U.S.C. 103(a) as being unpatentable over Crane (6,811,341) in view of Mark (US 2003/0060746).

Crane discloses all aspects of the claimed invention with the exception of the applicator tip being cotton. Crane discloses the support member comprises plastic, as described in column 10, lines 55-56. Mark teaches an application system having a cotton applicator tip, as described in paragraph [0023], as a suitable material for

applying a treatment material to a wound. It would therefore be obvious to one of ordinary skill in the art at the time of invention to make the applicator tip of Crane of cotton, as taught by Mark, to provide a suitable material for applying a treatment material to a wound.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to C. Lynne Anderson whose telephone number is (571) 272-4932. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tanya Zalukaeva can be reached on (571) 272-1115. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

CM

October 23, 2006

ACQUELINE STEPHENS